

```
import java.util.Scanner
```

```
class Students {
```

```
    private String usn;
```

```
    private String name;
```

```
    private int[] credits = new int[5];
```

```
    private int[] marks = new int[5];
```

```
    void getDetails() {
```

```
        System.out.println("Enter student usn");
```

```
        Scanner sc = new Scanner(System.in);
```

```
        usn = sc.next();
```

```
        System.out.println("Enter student name");
```

```
        name = sc.next();
```

```
        System.out.println("Enter credits and marks  
for 5 subjects :");
```

```
        for (int i = 0; i < 5; i++) {
```

```
            credits[i] = sc.nextInt();
```

```
            marks[i] = sc.nextInt();
```

```
        }
```

```
    }
```

```
    void printDetails() {
```

```
        System.out.println("---- Student details ----");
```

```
        System.out.println("Name: " + name + "\t" + "usn: " + usn);
```

```
        for (int i = 0; i < 5; i++) {
```

```
            System.out.println("Sub" + (i+1) + "Marks is " + marks[i] + "\t" + "credits: " + credits[i]);
```

```
        }
```

```
    }
```

```
void sgpa calculation () {
```

```
    double sgpa;
```

```
    int[] gpce = new int[5];
```

```
    int credsum = 0, gp, sgpace = 0;
```

```
    for (int i = 0; i < 5; i++) {
```

```
        credsum += credits[i];
```

```
        if (marks[i] >= 90) {
```

```
            gp = 10;
```

```
        }
```

```
        else if (marks[i] >= 80) {
```

```
            gp = 9;
```

```
        }
```

```
        else if (marks[i] >= 70) {
```

```
            gp = 8;
```

```
        }
```

```
        else if (marks[i] >= 60) {
```

```
            gp = 7;
```

```
        }
```

```
        else if (marks[i] >= 50) {
```

```
            gp = 6;
```

```
        }
```

```
        else if (marks[i] >= 40) {
```

```
            gp = 5;
```

```
        }
```

```
        else {
```

```
            gp = 0;
```

```
        }
```

```
        gpce[i] = gp * credits[i];
```

```
        sgpace += gpce[i];
```

```
    }
```

```
    System.out.println("Student's sgpa is : " + (sgpace) / (credsum));
```

```
}
```



```
public class Main {  
    public static void main (String[] args) {  
        Student s1 = new Student();  
        s1.getDetails();  
        s1.printDetails();  
        s1.sgpaCalculation();  
    }  
}
```